

Figure 1

Figure 2

Figure 3

C. 1.0 20 30 40 50 60 70 80 90 100 110 120
TGCCAGGGTTACGGGTTGCAACGGGCTGGCGATGCTGAACGGGCTCCATGGCTGGCTGGCATGGATTCCGAAACCTCGACCCGAGCTGGGAG
ACGGTCCCGAATGGCGAACGGTGTGCCAACCGCTACGAGCTTACGGGTTACAGGTGCTACGGCGGACCGAAGCTGCTATAGGCTGGGCTCGAACCTTC
1.30 140 150 160 170 180 190 200 210 220 230 240
CTGGGGCTGACCCGTCAGGGTATCGCGAACCCCTTACTTGGCTGGCATGGGATTCCGGGCTTGGGATCTGGCCATCGCTGCAGCGGGTAGCAGGGAGCTCTAGGGGGTT
GAGCCGGAGCTGGCAAGCTGGCAATAGCTGGCAAGCGTTGGGAATGAAAGGGAAACCCCTAAGGCCCGGCCCCGGACAGGTAGGCCAGCTGCCCATGTCCTAAGGTCCCCAA

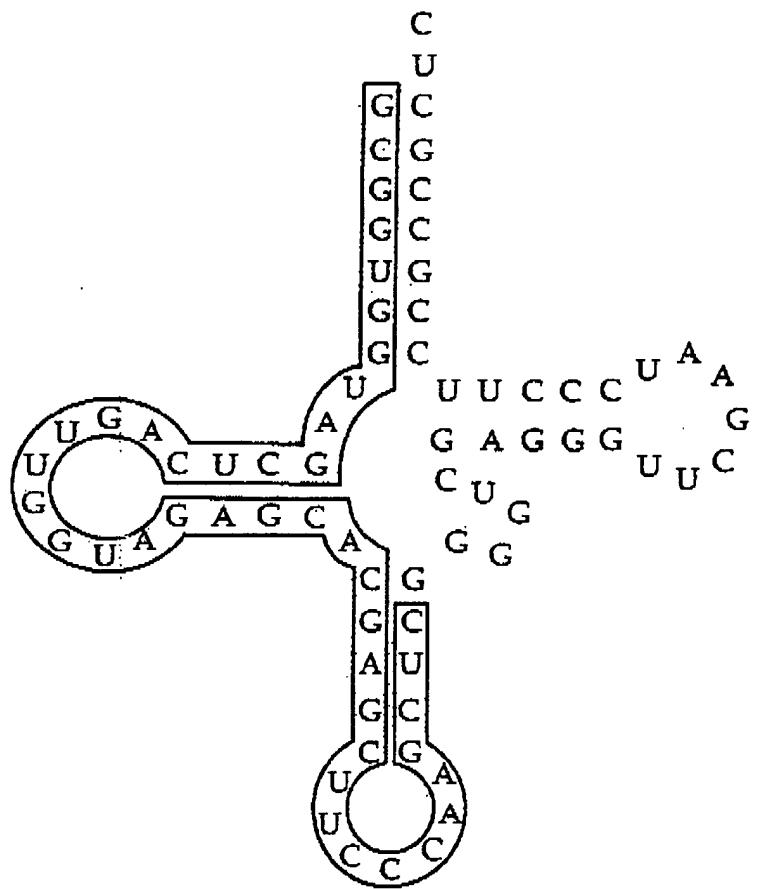


Figure 4

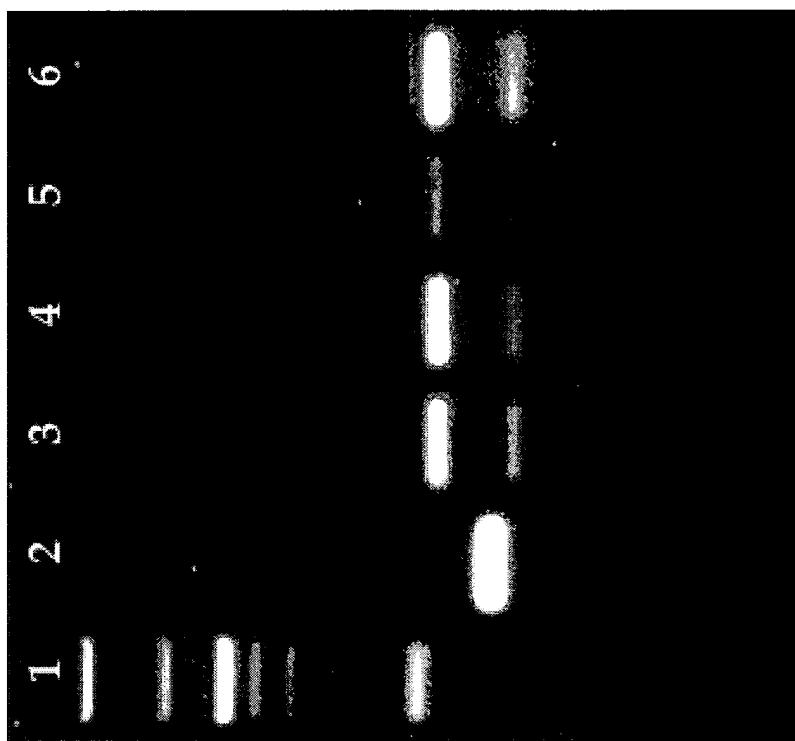


FIGURE 5

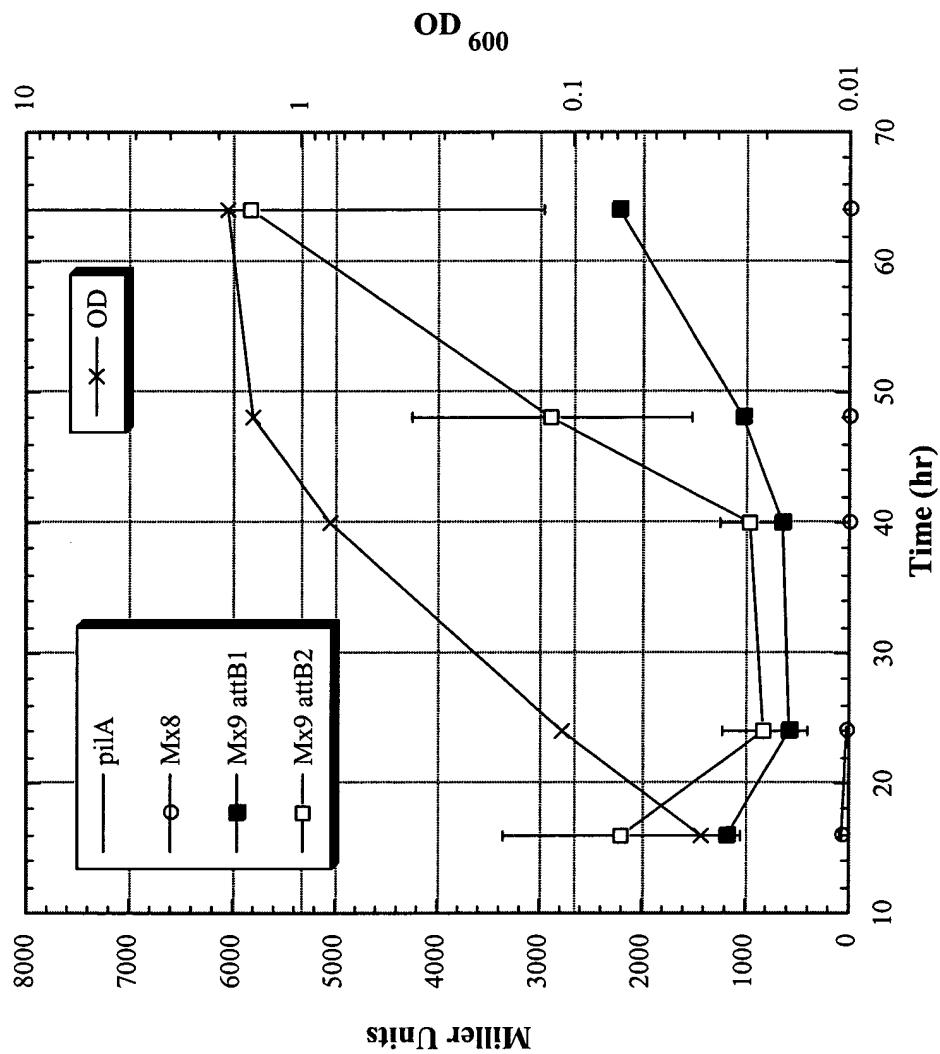


FIGURE 6A

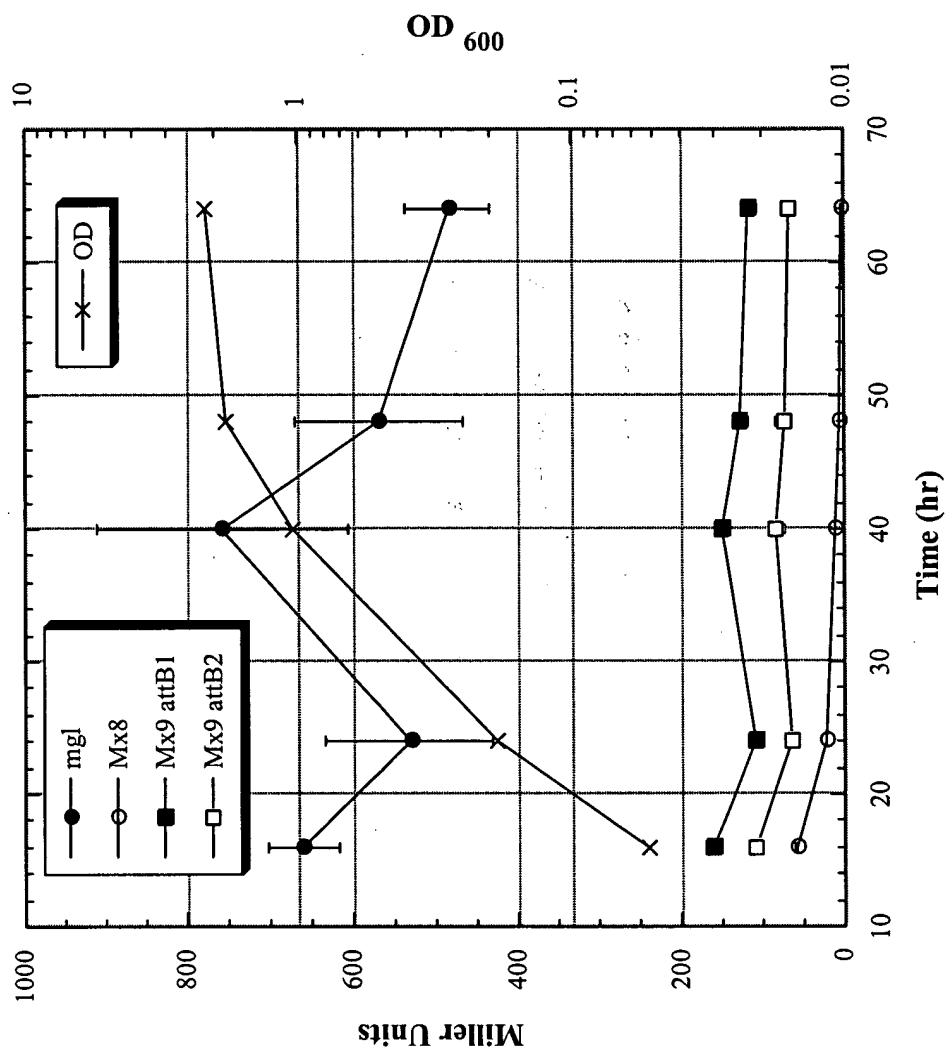


FIGURE 6B

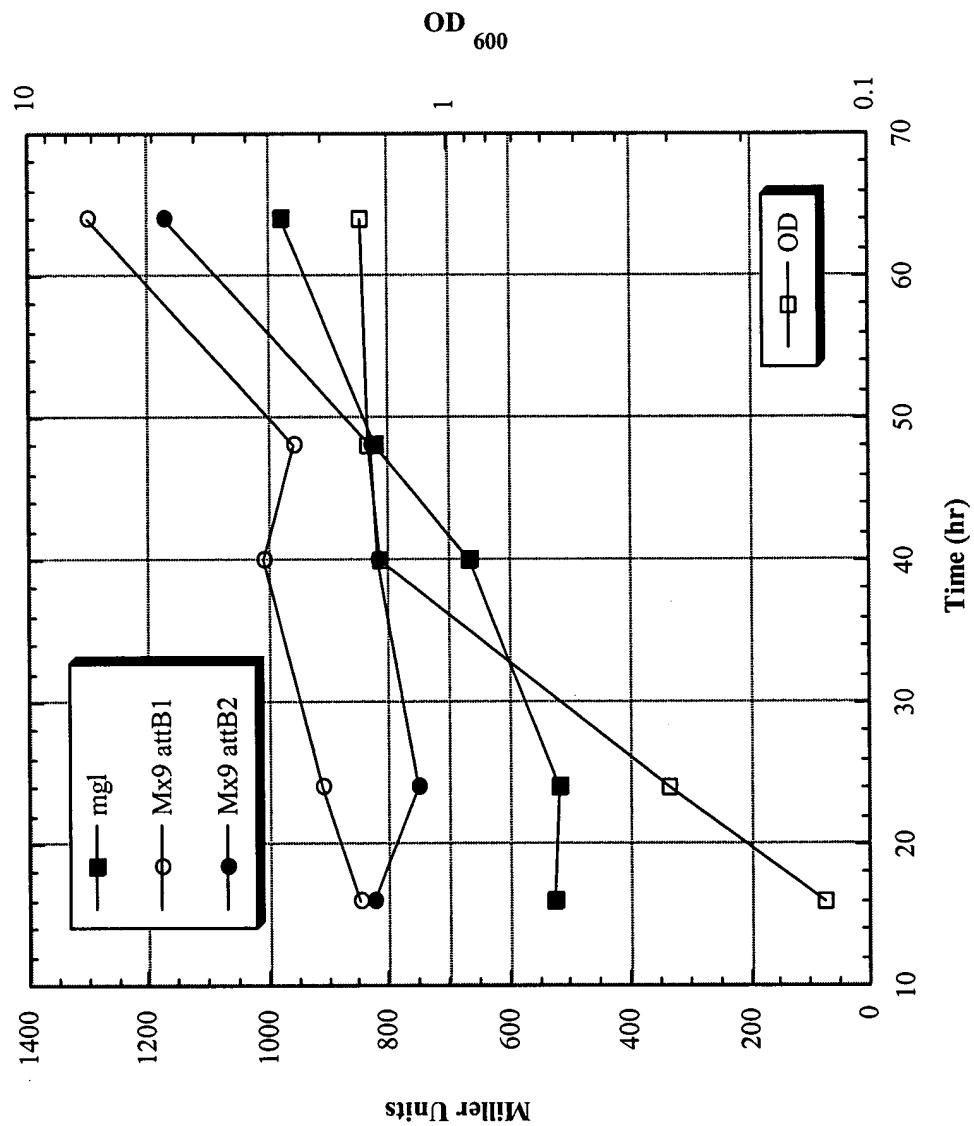


FIGURE 6C

Figure 7

10	20	30	40	50	60
ATG GAA AAA AAG GAA TTT CGT TTG ATA AAA TAC TGT TTT CTG AAG GGA AAA AAT ACA					
TAC CTT TTT TTC CTT AAA GCA CAA AAC TAT TTT ATG ACA AAA GAC TTC CCT TTT TTA TGT					
Met Glu Lys Lys Glu Asn Arg Val Leu Ile Lys Tyr Cys Asn Leu Lys Gly Lys Asn Thr					
70	80	90	100	110	120
GTG GAA GCA AAA ACT TGG CTT GAT AAT GAG TTT CCG GAC TCT GCC CCA GGG AAA TCA ACA					
CAC CTT CGT TTT TGA ACC GAA CTA TTA CTC AAA GGC CTG AGA CGG GGT CCC TTT AGT TGT					
Val Glu Ala Lys Thr Trp Leu Asp Asn Glu Asn Pro Asp Ser Ala Pro Gly Lys Ser Thr					
130	140	150	160	170	180
ATA ATT GAT TGG TAT GCA AAA TTC AAG CGT GGT GAA ATG AGC ACG GAG GAC GGT GAA CGC					
TAT TAA CTA ACC ATA CGT TTT AAG TTC GCA CCA CTT TAC TCG TGC CTC CTG CCA CTT GCG					
Ile Ile Asp Trp Tyr Ala Lys Phe Lys Arg Gly Glu Met Ser Thr Glu Asp Gly Glu Arg					
190	200	210	220	230	240
AGT GGA CGC CCG AAA GAG GTG GTT ACC GAC GAA AAC ATC AAA AAA ATC CAC AAA ATG ATT					
TCA CCT GCG GGC TTT CTC CAC CAA TGG CTG CTT TTG TAG TTT TTT TAG GTG TTT TAC TAA					
Ser Gly Arg Pro Lys Glu Val Val Thr Asp Glu Asn Ile Lys Lys Ile His Lys Met Ile					
250	260	270	280	290	300
TTG AAT GAC CGT AAA ATG AAG TTG ATC GAG ATA GCA GAG GCC TTA AAG ATA TCA AAG GAA					
AAC TTA CTG GCA TTT TAC TTC AAC TAG CTC TAT CGT CTC CGG AAT TTC TAT AGT TTC CTT					
Leu Asn Asp Arg Lys Met Lys Leu Ile Glu Ile Ala Glu Ala Leu Lys Ile Ser Lys Glu					
310	320	330	340	350	360
CGT GTT GGT CAT ATC ATT CAT CAA TAT TTG GAT ATG CGG AAG CTC TGT GCA AAA TGG GTG					
GCA CAA CCA GTA TAG TAA GTA GTT ATA AAC CTA TAC GCC TTC GAG ACA CGT TTT ACC CAC					
Arg Val Gly His Ile Ile His Gln Tyr Leu Asp Met Arg Lys Leu Cys Ala Lys Trp Val					
370	380	390	400	410	420
CCG CGC GAG CTC ACA TTT GAC CAA AAA CAA CAA CGT GTT GAT GAT TCT GAG CGG TGT TTG					
GGC GCG CTC GAG TGT AAA CTG GTT TTT GTT GTT GCA CAA CTA CTA AGA CTC GCC ACA AAC					
Pro Arg Glu Leu Thr Asn Asp Gln Lys Gln Arg Val Asp Asp Ser <u>Glu</u> Arg Cys Leu					
430	440	450	460	470	480
CAG CTG TTA ACT CGT AAT ACA CCC GAG TTT TTC CGT CGA TAT GTG ACA ATG GAT GAA ACA					
GTC GAC AAT TGA GCA TTA TGT GGG CTC AAA AAG GCA GCT ATA CAC TGT TAC CTA CTT TGT					
Gln Leu Leu Thr Arg Asn Thr Pro Glu Asn Phe Arg Arg Tyr Val Thr Met Asp Glu Thr					
490	500	510	520	530	540
TGG CTC CAT CAC TAC ACT CCT GAG TCC AAT CGA CAG TCG GCT GAG TGG ACA GCG ACC GGT					
ACC GAG GTA GTG ATG TGA GGA CTC AGG TTA GCT GTC AGC CGA CTC ACC TGT CGC TGG CCA					
Trp Leu His His Tyr Thr Pro Glu Ser Asn Arg Gln Ser Ala Glu Trp Thr Ala Thr Gly					
550	560	570	580	590	600
GAA CCG TCT CCG AAG CGT GGA AAG ACT CAA AAG TCC GCT GGC AAA GTA ATG GCC TCT GTT					
CTT GGC AGA GGC TTC GCA CCT TTC TGA GTT TTC AGG CGA CCG TTT CAT TAC CGG AGA CAA					
Glu Pro Ser Pro Lys Arg Gly Lys Thr Gln Lys Ser Ala Gly Lys Val Met Ala Ser Val					

610	620	630	640	650	660																					
TTT	TTC	GAT	GCG	CAT	GGA	ATA	ATT	TTT	ATC	GAT	TAT	CTT	GAG	AAG	GGA	AAA	ACC	ATC	AAC							
Asn	<u>Phe</u>	Asp	Ala	His	Gly	Ile	Ile	Asn	Ile	Asp	Tyr	Leu	Glu	Lys	Gly	Lys	Thr	Ile	Asn							
670	680	690	700	710	720																					
AGT	GAC	TAT	TAT	ATG	GCG	TTA	TTG	GAG	CGT	TTG	AAG	GTC	GAA	ATC	GCG	GCA	AAA	CGG	CCC							
TCA	CTG	ATA	ATA	TAC	CGC	AAT	AAC	CTC	GCA	AAC	TTC	CAG	CTT	TAG	CGC	CGT	TTT	GCC	GGG							
Ser	Asp	Tyr	Tyr	Met	Ala	Leu	Leu	Glu	Leu	Arg	Leu	Glu	Ile	Ala	Ala	Lys	Arg	Pro								
730	740	750	760	770	780																					
CAT	ATG	AAG	AAG	AAA	AAA	GTG	TTG	TTC	CAC	CAA	GAC	AAC	GCA	CCG	TGC	CAC	AAG	TCA	TTG							
GTA	TAC	TTC	TTC	TTT	TTT	CAC	AAC	AAG	GTG	GTT	CTG	TTG	CGT	GGC	ACG	GTG	TTC	AGT	AAC							
His	Met	Lys	Lys	Lys	Val	Leu	Phe	His	Gln	Asp	Asn	Ala	Pro	Cys	His	Lys	Ser	Leu								
790	800	810	820	830	840																					
AGA	ACG	ATG	GCA	AAA	ATT	CAT	GAA	TTG	GGC	TTC	GAA	TTG	CTT	CCC	CAC	CCA	CCG	TAT	TCT							
TCT	TGC	TAC	CGT	TTT	TAA	GTA	CTT	AAC	CCG	AAG	CTT	AAC	GAA	GGG	GTG	GGT	GGC	ATA	AGA							
Arg	Thr	Met	Ala	Lys	Ile	His	Glu	Leu	Gly	Phe	Glu	Leu	Leu	Pro	His	Pro	Pro	Tyr	Ser							
850	860	870	880	890	900																					
CCA	GAT	CTG	GCC	CCC	AGC	GAC	TTT	TTC	TTG	TTC	TCA	GAC	CTC	AAA	AGG	ATG	CTC	GCA	GGG							
GGT	CTA	GAC	CGG	GGG	TCG	CTG	AAA	AAG	AAC	AAG	AGT	CTG	GAG	TTT	TCC	TAC	GAG	CGT	CCC							
Pro	Asp	Leu	Ala	Pro	Ser	Asp	Asn	Phe	Leu	Phe	Ser	Asp	Leu	Lys	Arg	Met	Leu	Ala	Gly							
910	920	930	940	950	960																					
AAA	AAA	TTT	GGC	TGC	AAT	GAA	GAG	GTG	ATC	GCC	GAA	ACT	GAG	GCC	TAT	TTT	GAG	GCA	AAA							
TTT	TTT	AAA	CCG	ACG	TTA	CTT	CTC	CAC	TAG	CGG	CTT	TGA	CTC	CGG	ATA	AAA	CTC	CGT	TTT							
Lys	Lys	Asn	Gly	Cys	Asn	Glu	Glu	Val	Ile	Ala	Glu	Thr	Glu	Ala	Tyr	Asn	Glu	Ala	Lys							
970	980	990	1000	1010	1020																					
CCG	AAG	GAG	TAC	TAC	CAA	AAT	GGT	ATC	AAA	AAA	TTG	GAA	GGT	CGT	TAT	AAT	CGT	TGT	ATC							
GGC	TTC	CTC	ATG	ATG	GTT	TTA	CCA	TAG	TTT	TTT	AAC	CTT	CCA	GCA	ATA	TTA	GCA	ACA	TAG							
Pro	Lys	Glu	Tyr	Tyr	Gln	Asn	Gly	Ile	Lys	Lys	Leu	Glu	Gly	Arg	Tyr	Asn	Arg	Cys	Ile							
1030	1040																									
GCT	CTT	GAA	GGG	AAC	TAT	GTT	GAA	TAA																		
CGA	GAA	CTT	CCC	TTG	ATA	CAA	CTT	ATT																		
Ala	Leu	Glu	Gly	Asn	Tyr	Val	Glu	***																		